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IMPORTANCE OF SPACE DEVELOPMENT FOR THE PROGRESS OF HUMANITY.

**Abstract**

In recent decades, the use of aerospace technologies has increased exponentially, both in environmental policies, development of natural resources as well as their daily use in society worldwide, and all this thanks to space exploration. Hundreds of thousands of scientists, engineers, physicists, mathematicians, astronomers and technicians, from different generations throughout history, are the ones who have dedicated their lives to the exploration of the Universe. Some even having to go through harsh accusations, risks, fears as well as joys and emotions, the expected results were not always obtained but nevertheless hope ruled hand in hand with learning and one more step for science and society. From the telescope observation of Galileo Galilei in 1609, to the images obtained by observation satellites similar to the spy satellites of the 1980s, or milestones such as the launch of the first artificial satellite in history, Sputnik I in 1957, or the prestigious Moon landing in 1969, are events that marked a before and after in technological development.

The latter contributed to taking a giant step in the evolution of humanity and technology, since it brought time and dedication to technologies developed by space exploration such as microwaves, GPS, lasers, cell phones, contact lenses, barcodes, microchips, thermal sensors which are used, for example, to monitor forest fires, safeguard human life, floods and other similar phenomena.

Today, it is possible to see with the naked eye on a starry night, a large number of artificial, communication, navigation and observation satellites cross the sky. These transmit images constantly, being of extremely useful and crucial use both for the connection in various parts of the world through means of communication, security, the forecasting of weather events and for the control of global aviation, among other uses.

These developments have led to increasing talk about the contributions of aerospace technology to scientific research, mapping, environmental protection, crop recognition, strategic intelligence, and control of natural resources. Our country, mainly livestock and agricultural, has large hectares dedicated to this activity, its production being an important source of wealth. Any weather damage can have a significant effect, prompt action in assistance through the use of technologies is important, thus anticipating risks that compromise human life.

In the present work, all the benefits that space science and technology have brought, such as the aforementioned facts, for the progress of humanity will be developed in greater detail.